=> d his

L4

L9

L13

L16

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(FILE 'HOME' ENTERED AT 08:28:04 ON 22 AUG 2007)
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FILE 'HCAPLUS' ENTERED AT 08:28:18 ON 22 AUG 2007

E SHUNICHI MATSUO/AU 25

E MATSUO SHUNICHI/AU 25

L1 12 S (E3)

E TAKAMURA TAKATSUGU/AU 25

L2 2 S (E3)

E MATSUO SHUNICHI/IN 25

L3 12 S (E3)

E TAKAMURA TAKATSUGU/IN 25

E TAK

2 S (E3) 13 S L1-L4

L5 13 S L1-L-L6 13 DUP REI

13 DUP REM L5 (0 DUPLICATES REMOVED)

L7 2 S L5 AND ?CELLULOSE?

FILE 'STNGUIDE' ENTERED AT 08:30:52 ON 22 AUG 2007

FILE 'HCAPLUS' ENTERED AT 08:43:46 ON 22 AUG 2007

L8 42038 S CELLULOSE ACETATE

13221 S BAGASSE OR KENAF OR REEDS OR RICE STRAW

L10 53 S L9 AND L8

L11 42 S L10 AND 1800<=PY<=2003

L12 0 S L11 AND PRESSURE AND STEAM

6 S L11 AND PRESSURE

L14 0 S L11 AND STEAM

FILE 'STNGUIDE' ENTERED AT 08:46:24 ON 22 AUG 2007

FILE 'HCAPLUS' ENTERED AT 08:46:58 ON 22 AUG 2007

E ACETIC ANHYDRIDE+ALL/CT

L15 155478 S (ACETIC ANHYDRIDE OR "CHEMICAL COMPOUNDS" OR "ORGANIC COMPOUN

4 S L15 AND L11

L17 3 S L16 NOT L13

FILE 'STNGUIDE' ENTERED AT 08:47:44 ON 22 AUG 2007

FILE 'STNGUIDE' ENTERED AT 09:02:40 ON 22 AUG 2007

L17 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:126702 HCAPLUS

DOCUMENT NUMBER: 122:293668

TITLE: Acetylation of high α -cellulose pulp extracted

from fast growing plant species

AUTHOR(S): Saikia, C. N.; Dass, N. N.; Baruah, J. N. CORPORATE SOURCE: Regional Res. Lab., Jorhat, 785 006, India SOURCE: Cellulose Chemistry and Technology (1994),

28(1), 21-7

CODEN: CECTAH; ISSN: 0576-9787

DOCUMENT TYPE: Journal LANGUAGE: English

AB High α-cellulose (I) pulp was extracted from Leucaena glauca, a fast-growing perennial plant, and kenaf, an annual plant, and acetylated products were prepared from I following a homogeneous acetylation procedure, using acetic anhydride. An acetylated product was also prepared from a com. available I pulp, under identical conditions. IR, 1H-NMR, and 13C-NMR studies were done to characterize the acetylated products. The properties of acetylated products obtained from I from the 2 fast growing plant species were very much similar to the

L17 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

product obtained from com. available I pulp.

ACCESSION NUMBER: 1994:57012 HCAPLUS

DOCUMENT NUMBER: 120:57012

TITLE: Manufacture of cellulose esters and filled plastics

from wastepaper and bagasse

INVENTOR(S): Elion, Glenn R.

PATENT ASSIGNEE(S): International Communications and Energy, USA

SOURCE: U.S., 9 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
US 5244945	A 19930914	US 1992-916659	19920720 <
WO 9402539	A1 19940203	WO 1993-US6429	19930708 <
W: AT, AU, BB	, BG, BR, BY, CA,	CH, CZ, DE, DK, ES, F	I, GB, HU, JP,
		MW, NL, NO, NZ, PL, F	
SE, SK, UA		·	
RW: AT, BE, CH	, DE, DK, ES, FR,	GB, GR, IE, IT, LU, M	IC, NL, PT, SE,
BF, BJ, CF	, CG, CI, CM, GA,	GN, ML, MR, NE, SN, T	D, TG
AU 9346686	A 19940214	AU 1993-46686	19930708 <
PRIORITY APPLN. INFO.:		US 1992-916659	A 19920720
		WO 1993-US6429	W 19930708 ·

AB Cellulose esters and filled plastics are manufactured by reacting waste paper or bagasse with an acid anhydride in the presence of a catalyst, recovering the cellulose ester from the reaction mixture, and, when necessary, separating ink from the cellulose ester by filtration or solvent extraction

L17 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:176324 HCAPLUS

DOCUMENT NUMBER: 116:176324

TITLE: Homogeneous esterification of high α -cellulose

extracted from Leucaena leucocephala and Hibiscus

cannabinus

AUTHOR(S): Saikia, C. N.; Baruah, J. N.; Dass, N. N. CORPORATE SOURCE: Reg. Res. Lab., Jorhat, 785 006, India

SOURCE:

Indian Journal of Fibre & Textile Research (

1991), 16(3), 213-17

CODEN: IJFRET; ISSN: 0971-0426

DOCUMENT TYPE:

Journal English

LANGUAGE:

High α -cellulose pulp was extracted from two fast growing plants, Leucaena leucocephala (a perennial plant) and Hibiscus cannabinus (an annual plant), and then esterified with mono- and tri-carboxylic acid anhydrides following a homogeneous esterification procedure. The physico-chemical properties of the esterified products were studied and the products were characterized using IR and PMR techniques. The esterified products from the α -cellulose of above plants showed properties similar to those of esters prepared from com. available rayon-grade pulp.

L13 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:422140 HCAPLUS

DOCUMENT NUMBER: 133:136932

TITLE: An efficient, one-pot acylation of cellulose under

homogeneous reaction conditions

AUTHOR(S): El Seoud, Omar A.; Marson, Guilherme A.; Ciacco,

Gabriela T.; Frollini, Elisabete

CORPORATE SOURCE: Instituto de Quimica - Universidade de Sao Paulo, Sao

Paulo, 05513-970, Brazil

SOURCE: Macromolecular Chemistry and Physics (2000),

201(8), 882-889

CODEN: MCHPES; ISSN: 1022-1352

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal LANGUAGE: English

AB Cellulose (I) samples from cotton linters, sisal, and sugarcane bagasse were successively acylated (acetate, propionate, butyrate, and acetate/butyrate) under homogeneous reaction conditions, in LiCl/N, N-dimethylacetamide (DMAC), by the following procedure: (1) I and LiCl are heated under decreased pressure, at 110°; (2) I is dissolved in LiCl/DMAC by heating at 155°, followed by cooling to 40°; (3) the solubilized polymer is acylated at 60° for 18 h. Attractive features of this 1-pot procedure include: easy control and high reproducibility of the degree of substitution; elimination of base catalyst; negligible degradation of the natural polymer; and recovery/recycling of high purity DMAC and acid anhydride. Reaction conditions employed for the present I samples are different from those previously used for Avicel PH 101 microcryst. I because their fibrous nature, higher indexes of crystallinity, and higher mol. wts. retard their dissoln. and decrease their rates of acylation by acid anhydrides.

REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1955:55188 HCAPLUS

DOCUMENT NUMBER: 49:55188
ORIGINAL REFERENCE NO.: 49:10625d-e

TITLE: High-purity cellulose

INVENTOR(S): Asensio, Constantino Casanovas

DOCUMENT TYPE: Patent Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

ES 213734 19540503 ES

Pure cellulose, which is suitable for being transformed into the xanthogenate or the acetate, is obtained from very cheap raw materials, such as esparto grass, sugar cane bagasse, and cereal husks, by first washing these materials with a hot or cold acid or alkaline solution with or without pressure. Then the material is treated with 0.05-10% HNO3 from 10 min. to 5 hr. at 20-180°. This treatment serves to remove the mannans and xylans which cause a discoloration. The material is then bleached with Ca(ClO)2, NaClO2, Cl, ClO2, NaOCl, or any other suitable bleaching agent and washed with cold or warm water or dilute alkaline Finally, in order to reduce the ash content, the material is washed with mineral acids. After this washing, or after the bleaching operation, the material must be treated with SO2 if Fe is present.

L13 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1945:1078 HCAPLUS

22/08/2007

DOCUMENT NUMBER: 39:1078 ORIGINAL REFERENCE NO.: 39:172g-i

Thermoplastically bonded fibrous material TITLE:

INVENTOR(S): Levey, Constance D.

DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. 19440502 US 1939-307275 19391202 <-----------US 2347697 AΒ Fibers, such as wastes from saw mills, sugar-cane refineries or flour mills, are shredded to a desired length, preferably less than 1/2 in., and mixed with powdered gilsonite, rosin, asphalt, pitch and the like, forming about 1/4 of the mixture The fibers are preferably predried to approx. 10% moisture, before the mixture is molded under pressure of about 200-400 lb. per sq. in. at temps. 150-250°F. Powdered bagasse may be used instead of fibrous material and on one or both platens of the molding machine is placed a layer of thermoplastic material, such as cellulose acetate, ethylcellulose, polystyrene or urea-HCHO. The laminated board thus formed of the desired thickness may be dyed or pigmented, and is made impervious to pests by addns. of small amts. of insecticides to gilsonite, rosin, asphalt or whatever binder is used in the composition It is used as structural board of considerable hardness.

L13 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1938:62577 HCAPLUS

DOCUMENT NUMBER: 32:62577 ORIGINAL REFERENCE NO.: 32:8774c-e

TITLE:

Utilization of rice straw AUTHOR(S): Lopez, Daniel R.; Robinson-Gomez, Lilly

Univ. Philippines Nat. and Applied Sci. Bull. (SOURCE:

1938), 6, 103-7

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

Rice straw (100 g.) was cooked for 12-14 hrs. at 15 lb. pressure with a solution of 150 g. Na2CO3, 150 g. Na2SO4, 75 g. NaHSO3 and 9 g. ZnSO4. The resulting pulp was boiled with alkali, bleached, acidified with 0.5% HCl solution, washed and air-dried. The air-dry cellulose yield was 27.87% and the final product contained 5.02% H2O, 1.41% ash, 78.43% α -cellulose and it had a Cu number of 1.15. Cellulose acetate was prepared from this pulp. The utilization of this pulp for paper and cellulose derivs. is discussed

L13 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1931:44455 HCAPLUS

DOCUMENT NUMBER: 25:44455 ORIGINAL REFERENCE NO.: 25:5026i

TITLE: Fiber from bagasse or the like

INVENTOR(S): Richter, George A.

PATENT ASSIGNEE(S): Brown Co. DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 1811864 ----19310630 US 1927-162417 19270120 <--

AB The material is steeped at about room temperature in an alkaline liquor of an alkalinity at least equivalent to 7% NaOH until the liquor has thoroughly diffused and penetrated into the material, followed by cooking at atmospheric pressure in the liquor.

L13 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1931:17936 HCAPLUS

DOCUMENT NUMBER: 25:17936
ORIGINAL REFERENCE NO.: 25:1993c-d

TITLE: Molded products from cellulosic material

INVENTOR(S): Smyser, Frederic H. PATENT ASSIGNEE(S): General Electric Co.

DOCUMENT TYPE: Patent Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
-----US 1792254 19310210 US 1929-401627 19291022 <--

AB A cellulosic material such as sawdust, bagasse or cornstalks having natural substances capable of yielding resinous compds. is digested with NaOH, and H2SO4 is added to the digested mass to precipitate the dissolved resinous constituents, the material is filtered and the mass is washed until neutral, dried at about 80° and there is added to the dried mass about 5-40% of hydrated lime, the material is powdered and is molded under heat and pressure.

INVENTOR(S):

=> d 17 ibib abs 1-2

L7 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:794575 HCAPLUS

DOCUMENT NUMBER: 141:297538

TITLE: Process for manufacturing cellulose molding,

plant component extracting apparatus, and process for

producing cellulose acetate Matsuo, Shunichi; Takamura,

Takatsugu

PATENT ASSIGNEE(S): Nihon Zaikei Kabushiki Kaisha, Japan

SOURCE: Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE .	APPLICATION NO.	DATE	
EP 1462238	A2	20040929	EP 2004-251357	20040310	
			GB, GR, IT, LI, LU, NL		
			CY, AL, TR, BG, CZ, EE		HR
JP 2004299247	Α	20041028	.JP 2003-82508 JP 2003-94721	20030331	
SG 129268	A1	20070226	SG 2003-7738	20031229	
IN 2004KO00091	Α	20060303	SG 2003-7738 IN 2004-KO91	20040304	
US 2004241302	A1	20041202	US 2004-799924	20040312	
CN 1532208	Α		CN 2004-10008917		
AU 2004201074	A1	20041014	AU 2004-201074	20040315	
CN 1789285	A	20060621	AU 2004-201074 CN 2005-10127455	20040315	
CN 1803847		20060719			
JP 2004306021	Α	20041104	JP 2004-78645	20040318	
CA 2461621	A1	20040925	CA 2004-2461621	20040322	
KR 2004084754	Α	20041006		20040324	
BR 2004000773	Α	20050111	BR 2004-773	20040325	
KR 2005109272	Α	20051117	KR 2005-102183	20051028	
KR 2006004881		20060116	KR 2005-109682	20051116	
AU 2005239677	A1	20051222	AU 2005-239677	20051130	
AU 2005239683	A1	20051222			
PRIORITY APPLN. INFO.:			JP 2003-82508	A 20030325	
			JP 2003-82509		
			JP 2003-94721	A 20030331	
			AU 2004-201074		
			CN 2004-10008917	A3 20040315	
			KR 2004-19908	A3 20040324	
			KR 2005-102183	A3 20051028	
AB A process for manuf	acturin	g a cellu	lose molding, comprises	: steaming	

A process for manufacturing a cellulose molding, comprises: steaming corncob meal at a temperature of 150 to 250° and a pressure of 20 to 29 MPa; filtering the steamed corncob meal with a filtering device to obtain a solid; and molding the solid;. The molding step comprises: separating the solid into a first solid and a second solid; dehydrating and acetylating the first solid by adding acetic anhydride and sulfuric acid thereto; filtering the dehydrated and acetylated solid with a filtering device to remove a solid and obtain filtrate; and stirring and mixing the filtrate and the second solid to obtain a liquid product. The plant component extracting apparatus comprises: raw material processing means including a raw material supply portion for supplying a plant raw material and a raw material pressurizing portion for heating and pressurizing the supplied plant raw material at 150 to 350° and 5 to 30 MPa, resp.; hot water supply means including a pressurizer (P1) and a heater and supplying sub-critical water having a temperature of 300 to 350° pressurized at a pressure of 28 to 30 MPa; and hot water reacting means for carrying out a steaming

treatment by mixing the heated and pressurized plant raw material with the sub-critical water supplied from the hot water supply means;. A process for manufacturing cellulose acetate comprises: steaming a material selected from bagasse, kenaf, reeds and rice straw in a pressure vessel at a temperature of 150 to 350° and a pressure of 15 to 29 MPa; filtering the steamed material with a filtering device to obtain a solid; and dehydrating and acetylating the solid by adding acetic anhydride and sulfuric acid to the solid.

L7 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:357414 HCAPLUS

DOCUMENT NUMBER: 138:339877

TITLE: Manufacture of cellulose acetate from

corncob wastes for biodegradable plastics in reduced steps by cooking milled corncob in a pressure vessel

at 150-250°, filtering the materials and dehydroacetylating cellulose by adding

acetic anhydride and sulfuric acid to the filtered

solid materials

INVENTOR(S):
Matsuo, Shunichi; Takamura, Koji

PATENT ASSIGNEE(S): Nihon Zaidan K. K., Japan SOURCE: Jpn. Tokkyo Koho, 5 pp.

CODEN: JTXXFF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	CENT	NO.			KINI	DATE	:		PLICATION				
	JP	3405	981			В1	2003	0512		2002-186				
	JP	2004	0270	56		Α	2004	0129						
	J₽	2004	0242	34		Α	2004	0129	JP	2002-364	112		20020	626
	JP	3522	264			B2 A1	2004	0426						
	CA	2429	079			A1	2003	1226	CA	2003-242	9079		20030	516
	CA	2429	079			С	2006	1114						
	US	2004	0025	98		A1	2004	0101	US	2003-439	809		20030	516
	US	6984	731			B2	2006	0110						
	ΕP	1375	522			A2	2004	0102	EP	2003-113	40		20030	519
	عظ	13/3	J Z Z			A.S	2004	0107						
							2006							
		R:								R, IT, LI				
										J, TR, BG				
	KR	2004	0025	12		Α	2004	0107	KR	2003-315	50		20030	519
										2003-204				
	ΕP	1466	926			A2	2004	1013	EP	2004-144	80		20030	519
							2005							
		R:								R, IT, LI				
			ΙE,	SI,	LT,	LV,	FI, RO,	MK, (CY, AI	, TR, BG	, CZ,	EE, H	W, SK	
	AT	3460	97			T	2006	1215	AT	2003-113 2003-131 2003-200	40		20030	519
	CN	1467	225			Α	2004	0114	CN	2003-131	397		20030	520
	BR	2003	0020	01		Α	2004	0824	BR	2003-200	1		20030	520
	MX	2003	PA04	491		Α	2005	0203	MX	2003-PA4	491		20030	520
	IN	1953	81			A1	2005	0211	IN	2003-CA2	81		20030	520
	HK	1060	580			A1	2007	0404	HK	2004-102	522		20040	408
	ΑU	2004	2053	23		A1	2004	1007	AU	2004-205	323		20040	830
	IN	2004	KO00	541		Α	2006	0203	IN	2004-KO5	41		20040	908
PRIO	RITY	APP	LN.	INFO	.:				JP	2002-186	476	A3	20020	626
									AU	2003-204	273	A3	20030	519
									EP	2003-204 2003-113	40	A3	20030	519
									IN	2003-KO2	81	A3	20030	520

AB Cellulose acetate (I) is prepared by the steps comprising the steps of (a) cooking milled corncob in an autoclave at 150-250° and

20-29 MPa, (b) filtering the materials, and (c) dehydroacetylating cellulose by adding acetic anhydride (II) and H2SO4 to the filtered solid materials. A mixture containing milled corncob 100, CaSO3 5, and H2O 50 parts was kneaded in a sealed extruder for 5 min at 100° and 3.5 Mpa, subsequently kneaded in a sealed extruder at for 5 min at 150° and 10 MPa, subsequently kneaded in a sealed extruder for 5 min at 200° and 22 MPa, finally kneaded in a sealed extruder for 15 min at 220° and 28 MPa, and filtered to give solid materials. The solid materials were stirred in a mixture of AcOH 5, II 10, and H2SO4 5 parts per 100 parts solid material for 24 h at 10 MPa and 60 rpm to give I with sp. gr. 1.33 (at 25°) and 1.36 (at 4°), bulk d. 0.25-0.5 kg/L, glass transition temperature 160-180°, and m.p. 230-300°.

=> fil stng COST IN U.S. DOLLARS

SINCE FILE TOTAL

Searched fo	or:: :All of the words:(((kenaf OR bagasse OR reeds OR rice) AND extru* AND pressure) AND (I
Foun	d:: :294 total 7 journal results 258 preferred web results 29 other web results
Sort b	y:: :relevance <u>date</u>
	Save checked results Email checked results Export checked results
□ 1.	A bioethanol process development unit: initial operating experiences and results
	with a corn fiber feedstock Schell, D.J. / Riley, C.J. / Dowe, N. / Farmer, J. / Ibsen, K.N. / Ruth,
	M.F. / Toon, S.T. / Lumpkin, R.E. , Bioresource Technology, 91 (2), p.179-188,
	Jan 2004opportunities with low cost feedstocks such as bagasse (BCI) and municipal
	solid waste (Masadabiomass mixer a high-temperature, high- pressure reactor
	system and a flash tank. Thedischarge port. The reactor is heated by steam to
	achieve the desired temperature andconditions Temperature (^oC) 30 30 30 30 30 30 Pressure (kPa) - b b (-) not applicable 133
	Published journal article available from Science Direct
	view all 6 results from ScienceDirect
	similar results
∐ 2.	Potential and utilization of thermophiles and thermostable enzymes in biorefining Turner, Pernilla / Mamo, Gashaw / Karlsson, Eva Nordberg , Microbial Cell
	Factories, 6, p.9-9, Mar 2007
	doi:10.1186/1475-2859-6-9desired activities, for development of better thermostability, and using the
	temperature of the screening assay as selection pressure [34 - 36]. This could
	for instance include development of thermostable cellobiohydrolases, which are uncommon among thermophiles
	Published journal article available from Central Central
	<u>similar results</u>
☐ 3.	Bibliography Contabutanta Returnanta (2 (2) n 100 201 New 2005
	Carbohydrate Polymers, 62 (2), p.199-204, Nov 2005 characterization of plasticized cellulose acetate biocomposite with natural fiber
	CzajaBiotransform 2004 22 (5-6) 383 Influence of steam and dry heat
	pretreatment on fibre properties57 (3-4) 124 Impact of high hydrostatic pressure treatment on the resistant starch content
	Published journal article available from Science Direct
	view all 6 results from ScienceDirect
	similar results
4.	Pretreatment of Miscanthus for hydrogen production by Thermotoga elfii de Vrije, T. / de Haas, G.G. / Tan, G.B. / Keijsers, E.R.P. / Claassen,
	P.A.M., International Journal of Hydrogen Energy, 27 (11), p.1381-1390, Nov
	2002treated with NaOH during or following extrusion (samples E2-E4) showed a
	comparable3). Fig. 3 Enzymatic hydrolysis of extruded and NaOH-pretreated
	Miscanthus . () E1 () , E2 () E3 and () E4. () extruded and steam pretreated Miscanthus . Enzyme activities
	Published journal article available from ScienceDirect
	view all 6 results from ScienceDirect
	similar results
□ 5.	Bibliography of carbohydrate polymers Carbohydrate Polymers, 32 (3), p.321-326, Mar 1997

...diffusion of water and al- cohols in cellulose acetate Pron A, Nicolau Y, Genoud F, Nechtschein...transparent, and conduct polyaniline-cellulose acetate composite films Rakhmanberdyev GR, Fedyakova...Appl Chem 1997 A34 (1) 153 Sugar cane bagasse lignin in resol-type resin: Alternative... Published journal article available from ScienceDirect view all 6 results from ScienceDirect similar results **6.** Composites reinforced with cellulose based fibres Bledzki, A.K. / Gassan, J., Progress in Polymer Science, 24 (2), p.221-274, May 1999 ...technology (e.g. microbial deterioration, steam explosion) used is one of the essential...tensile explosion process and the new steam explosion process, that is, the **pressure** process [8,9] . In this new **steam** explosion...**steam**, and additives if necessary, under **pressure** and with increased temperature. penetrate... Published journal article available from Science Direct view all 6 results from ScienceDirect similar results **7.** Bibliography on carbohydrate polymers Carbohydrate Polymers, 10 (3), p.230-253, Jan 1989 ...structure (Blanshard JMV) Extrusion and co-extrusion of cereals...gas mixtures in cellulose acetate membranes - practical approach...of cellulose and cellulose acetate Studies on gas transport through dry cellulose acetate membranes prepared by solvent...29 (5) 462 Comparison of steam and ammonia pretreat- ment... Published journal article available from ScienceDirect view all 6 results from ScienceDirect

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			"cellulose acetate" AND manufacturing AND steam ANI	Search	
			☑ Journal sources ☑ Preferred Web sources ☑ Other Web sources	Exact phrase	
9	Sear	ched for::	:All of the words:"cellulose acetate" AND manufacturing AND stea	ım AND temperature	: AN
		Found::	:168 total <u>3 journal results</u> <u>147 preferred web results</u> <u>18 ot</u>	ther web results	
		Sort by::	:relevance <u>date</u>		
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	1.		or manufacturing cellulose molding, plant component extracting producing cellulose acetate	g apparatus, and	<u>"C€</u> <u>m</u> :
	•	Matsuo,	Shunichi / Takamura, Takatsugu (Celjan Co. Ltd.), EUROP	'EAN PATENT	<u>ter</u> (ke
		APPLICAT patno: EP1	TION, Sep 2004 1462238		ke
	•	provide	a process for manufacturing cellulose acetateis a proce		Re
			turing a cellulose moldingcorncob meal at a temperature essure of 20 to 29 MPasub-critical water having a temperature		us foi
		350°Cfd	or a process for manufacturing cellulose acetate , the proce	ess com <u>p</u> rising	ace
•			available at patent office. For more in-depth searching 47 results from Patent Offices	go to CarlexisNexis	<u>u.c.</u>
		similar re			ace cel
	2.		or manufacturing cellulose molding, plant component extractin	g apparatus, and	pro
			or producing cellulose acetate Shunichi / Takamura, Takatsugu, UNITED STATES PATENT	T AND	<u>cel</u> <u>cel</u>
		TRADEMA	ARK OFFICE PRE-GRANT PUBLICATION, Dec 2004 20040241302		<u>etr</u>
		out und	der a pressure of 5 to 15 MPa10 MPa. The temperature for		fibı
			on0085] The cellulose acetate obtained byabove direct ardening temperature , can be carriedprocess for manufac t		<u>filt</u>
		acetate o	of the presentmanufacturing cellulose acetate according	to	gly pla
			available at patent office. For more in-depth searching 47 results from Patent Offices	go to C LexisNexis•	pla
		similar re			pol
₹*	3.		acetate [13K]		Or
		May 2007	, g Custom manufacturing / synthesismaterials Boilers & st e	eam equinment	Al
		Chillers	measurement & control Pressure measurementinstruments	Temperature	
		measuren Cellulose	nentWord Count: cellulose acetate (5691) FindIndustria Acetate Industrial Chemicals: Cellulose Acetate Industrial	Chemicals:	F
		[http://ch	nemindustry.com/popular/C/cellulose_acetate.ht]	=	
		more nits	<u>from</u> [http://chemindustry.com] sults		

	4.	GRSDC RESEARCII PRC) GRILM14E [PDF-79K] Aug 2001tion, filter pressure drop and blendwhich includes cellulose acetate (control), polypropylenethe tube into cellulose acetate filters by spinfoam, preferably cellulose acetate,.or polypropylenetively high pressure drop is generatedevaluate the filter manufacturing process (spin [http://www.hlth.gov.bc.ca/guildford/pdf/083/00008426.p] more hits from [http://www.hlth.gov.bc.ca] similar results
· ·	5.	No Title [9K] Jun 2005differential pressure (25°C) 4.0 kgMax. operating temperature 80°C (176° FPrefilter membrane Cellulose acetate Final membranedifferential pressure (25°C) 5.0 kgMax. operating temperature 80°C (176°FMembrane Coated cellulose acetate Core tube PolypropylenePolypropylene Coated Cellulose Acetate (single layer [http://www.clarksonlab.com/micf/PDF/capsules.pdf] more hits from [http://www.clarksonlab.com] similar results
	6.	CELLULOSE ACETATE AND PROCESS FOR PRODUCING THE SAME OZAKI, Toru / SASAI, Hirofumi / TANIGUCHI, Hiroki / NAKAI, Michiyo / SUZUKI, Shinsuke (DAICEL CHEMICAL INDUSTRIES, LTD.), EUROPEAN PATENT APPLICATION, Jan 2003 patno:EP1270597from a dope of cellulose acetate, an excessivelydesirable to provide cellulose acetate having a smallimprovement of the manufacturing process, intechnique of a high-temperature acetylationclogging constant Cellulose acetate is dissolvedunder a constant pressure at the filtration2)) and the temperature of 25° C using Full text available at patent office. For more in-depth searching go to LexisNexist view all 147 results from Patent Offices similar results
	7.	Statement of Legal and Factual Basis [22K] Apr 2005Permit for its cellulose acetate flake and fiber manufacturing facility locatedCellulose Acetate Manufacturing. In cellulose acetate manufacturingrecycled from cellulose acetate manufacturing and ketene anhydride [http://www.deq.state.va.us/air/pdf/titlevpermits/20304] similar results
	8.	No Title [ASCII-9K] Dec 2006the course of manufacturing for the purposeand cocoa. 19. CELLULOSE ACETATE It fibrous formcollection of cellulose acetate fibre& (towgloving high temperature (800 - 9W'Cincreasing the PRESSURE DRO? (q.v.) obtainedname (LASTW) for cellulose acetate filter tow. 41flue-cured). The nano steam from the laboratory [http://www.library.ucsf.edu/tobacco/batco/OCR/16600/16] similar results
Pr.	9.	Process of manufacturing cellulose acetate SULZER ALBERT F, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Nov 1925 patno:US1560620 process of manufacturing cellulose acetate, the stepsvacuum, a cellulose acetate reactionvalues at a temperature below the one at which the cellulose

acetate is degraded...maintaining the pressure thereof below... Full text available at patent office. For more in-depth searching go to LexisNexis view all 147 results from Patent Offices similar results **10.** AY-1A ESTRON and CHROMSPUN Acetate Yarn [11K] Mar 2007 ...of heat and pressure. As a result...production of cellulose acetate for use as...we provided cellulose acetate to the United...acetate yarn manufacturing. • 2005...flake called cellulose acetate. Spinning The... [http://www.eastman.com/NR/rdonlyres/146A7047-9A4F-4593...] similar results **11.** Cellulose acetate and process for producing the same Ozaki, Toru / Sasai, Hirofumi / Taniguchi, Hiroki / Nakai, Michiyo / Suzuki, Shinsuke, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, May 2003 patno:US20030092906 ...superheated steam into the system and adjusting temperature and time. Subsequently...give a flaky cellulose acetate. (Example 4...superheated steam into the system and adjusting temperature and time. Subsequently...give a flaky cellulose acetate. (Example 7...superheated steam into the system and adjusting temperature and time. Subsequently...give a flaky cellulose acetate. 1TABLE ${\tt 1Comparative Example Example 123456712 Acetylation}...$ Full text available at patent office. For more in-depth searching go to LexisNexisview all 147 results from Patent Offices similar results **12.** CIGARETTES AND FILTER SUBASSEMBLIES WITH SQEEZABLE FLAVOR CAPSULE AND METHODS OF MANUFACTURE KARLES, Georgios D. / ALLEN, Jeffrey / NEPOMUCENO, Jose (PHILIP MORRIS PRODUCTS S.A.), PATENT COOPERATION TREATY APPLICATION, Nov 2006 patno:WO06117697 ...methods of manufacturing cigarettes...comprised of cellulose acetate and the second...comprised of cellulose acetate. In another...preferably steam set. A third...method for manufacturing cigarette...layer of cellulose acetate is steam... Full text available at patent office. For more in-depth searching go to LexisNexisview all 147 results from Patent Offices similar results 13. Process for extruding plasticized open cell foamed cellulose acetate filters Howell, Carl J. / Trott, David W. / Riley, Jesse L. (Celanese Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Dec 1979 patno: US4180536 ...to a method of manufacturing foamed cellulose acetate and the product...inert gas under pressure into ripened...sulfate content of cellulose acetate should be controlled...and elevated temperature viscosities...hydrochloric acid in a steam autoclave to...content of the cellulose acetate flake employed... Full text available at patent office. For more in-depth searching go to LexisNexisview all 147 results from Patent Offices similar results **14.** <u>Intermediate product in the manufacture of cellulose acetate</u> SEEL PAUL C, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, May 1925 patno:US1536311 ...stored at room temperature and pressure, so that when...in the final cellulose acetate product. Other...for process of manufacturing cellulose acetate. As a result...of-which comprised cellulose acetate mixed with acetic...

Full text available at patent office. For more in-depth searching go to CexisNexis* view all 147 results from Patent Offices similar results ☐ 15. Process for the production of nonwoven cellulose acetate laminate cured with phenolic Arisaka, Katsuharu / Sawada, Hideo / Shimoguchi, Kozo (Daicel, Ltd.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT. Feb 1977 patno: US4008301 ...superheated steam at a pressure of from 0.05...sup.2 and a temperature of from 80.degree...removing the cured cellulose acetate fiber web from...wherein said cellulose acetate fibers have...superheated steam at a pressure of from 0.05...sup.2 and a temperature of from 80.degree...removing the cured cellulose acetate fiber web Full text available at patent office. For more in-depth searching go to LexisNexisview all 147 results from Patent Offices similar results **16.** Open cell structure foamed cellulose acetate filters Howell, Carl J. / Trott, David W. / Riley, Jesse L. (Celanese Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Aug 1981 patno:US4282890 ...maintained at a temperature of from -20.degree...extruder is a high pressure, high shear zone...temperature of cellulose acetate. The third zone...sulfate content of cellulose acetate should be controlled...and elevated temperature viscosities...hydrochloric acid in a steam autoclave to...content of the cellulose acetate flake employed... Full text available at patent office. For more in-depth searching go to **LexisNexis** view all 147 results from Patent Offices similar results ☐ 17. Chemical Industries NewsletterJuly 2006 [27K] Dec 2006 ...is captive by producers of cellulose acetate and related products. Much...recovered acetic acid from cellulose acetate operations. In Europe, most...anhydride is consumed in **cellulose acetate** production tetraacetylethylenediamine... [http://ecom.sric.sri.com/nl/Public/2006Dec.pdf] similar results **18.** Process for making fibrillated cellulose acetate staple fibers Frederick, Tim J. / Mitchell, Melvin G. / Partin, Lee R. / Wilson, Alan K. / Neal, Richard D. (Eastman Chemical Company), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jul 1998 patno: US5779736 ...of the squeeze pressure. The water take-up...water per lb of cellulose acetate. The base application...operated at various temperatures from the solution...1 One bale of cellulose acetate filter tow of...C. and sparge steam on the tow. The...proceeded at room temperature (approximately...EXAMPLE 2 Six cellulose acetate filter tow bands... Full text available at patent office. For more in-depth searching go to LexisNexisview all 147 results from Patent Offices similar results **19.** Process for preparation of cellulose acetate Ikemoto, Yoshiyuki (Daicel Chemical Industries, Ltd.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Dec 1981 patno: US4306060 ...of a primary **cellulose acetate** containing a...however, because **steam** is directly introduced...out at a high temperature and a stirring...autoclave and steam was

introduced...under a gauge **pressure** of 5 Kg/cm.sup.2. After the **temperature** was elevated...the thus-formed **cellulose** acetate. The precipitate...thus-obtained **cellulose** acetate flakes were characterized...

Full text available at patent office. For more in-depth searching go to view all 147 results from Patent Offices similar results

20. CELLULOSE ACETATE AND STARCH BASED BIODEGRADABLE INJECTION MOLDED PLASTICS COMPOSITIONS AND METHODS OF MANUFACTURE

MAYER, Jean M. / ELION, Glenn R. (THE UNITED STATES OF AMERICA, represented by THE SECRETARY OF THE ARMY), PATENT COOPERATION TREATY APPLICATION, Jan 1995

patno:WO9501395

...formed under high **temperature** and **pressure** into gelatinized...or at elevated **temperatures**, rendering them...plasticizer used with **cellulose acetate** was triacetin...needed to makes **cellulose acetate** based plastics...

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"cellulose acetate" AND manufacturing AND steam ANI

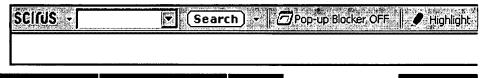
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2.	process for Matsuo, Strandeman, Strandeman	or producing cellum Shunichi / Takar RK OFFICE PRE-020040241302 er a pressure of con0085] The control the presentm available at pate of results from Pate Shunich Pate of the presults from Pate of the presult	mura, Takatsugu, UN GRANT PUBLICATION, D 5 to 15 MPa10 MPa. ellulose acetate obtain ature, can be carried anufacturing cellulose ent office. For more	TITED STATES PATEN DEC 2004 The temperature for the direct process for manufacting acceptate according	or the pressure molding cturing cellulose to	F
] 3.	PLASTICS MAYER, J by THE SE 1995 patno: WO Reaction	COMPOSITIONS CARETARY OF THE 9501395 temperatures	STARCH BASED BIODE AND METHODS OF MAI I, Glenn R. (THE UNITE ARMY), PATENT COOF usually are350C. For and pressure into gela	NUFACTURE ED STATES OF AMERI PERATION TREATY AP Cellulose acetate	ICA, represented PPLICATION, Jan	

plastics... Full text available at patent office. For more in-depth searching go to LexisNexis view all 15 results from Patent Offices similar results **4.** Cellulose acetate and starch based biodegradable injection molded plastics compositions and methods of manufacture Mayer, Jean M. / Elion, Glenn R. (The United States of America as represented by the Secretary of the Army), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Feb 1994 patno: US5288318 ...Reaction temperatures usually are...under high temperature and pressure into gelatinized...at elevated temperatures, rendering...method of manufacturing is needed...sorghum, rice and arrowroot...amylose. The cellulose acetate in the present...30% to 70% cellulose acetate which has... Full text available at patent office. For more in-depth searching go to LexisNexisview all 15 results from Patent Offices similar results **5.** Process for making fibrillated cellulose acetate staple fibers Frederick, Tim J. / Mitchell, Melvin G. / Partin, Lee R. / Wilson, Alan K. / Neal, Richard D. (Eastman Chemical Company), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jul 1998 patno: US5779736 ...removal from the **cellulose acetate** for a target application...weight loss in the cellulose acetate. To prevent Tinting...of the squeeze pressure. The water takeup...water per lb of cellulose acetate. The base application...operated at various temperatures from the solution...atmospheric sparge steam in a steam tube... Full text available at patent office. For more in-depth searching go to ClexisNexisview all 15 results from Patent Offices similar results **6.** No Title [158K] Mar 2003 ...resulting rise in temperature. Mathematically...substance is cellulose acetate (FTC definition...resultant product, cellulose acetate flake, is precipitated...treated with a cellulose acetate dope and used...place by air pressure. ALBATROSS... [http://www.celanese.com/textile_glossary_filament_acet...] similar results 7. MEANS FOR MANUFACTURING STAPLE FIBER FILTER ELEMENTS BERGER RICHARD M / SPROULL REAVIS C (AMERICAN FILTRONA CORPORATION). UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 1972 patno: US3658626 ...of plasticized cellulose acetate plication Ser...physical and ""der Pressure against the tow...layer to form manufacturing methods in most...disperses the steam-treating station...while the <HR>steam serves to efficiently...In fact, the steam 188 into the funnel...terminology the cellulose acetate tow is generally...including shredded bagasse fibers, cotton... Full text available at patent office. For more in-depth searching go to LexisNexisview all 15 results from Patent Offices similar results **8.** Filtration materials Beven, John Lawson / Case, Paul David / Coleman, Martin / Greig, Colin

Campbell / White, Peter Rex (British-American Tobacco Company Limited), UNITED

STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Sep 1999

patno: US5954059

was triacetin...method of manufacturing is needed to makes cellulose acetate based

...operating temperature of the extrusion...operating pressure, wherein...consisting of cellulose acetate, polypropylene...example, cellulose acetate. The material...process. If **cellulose acetate** is used...Company. **Rice** or tapioca... Full text available at patent office. For more in-depth searching go to LexisNexisview all 15 results from Patent Offices similar results **9.** Extruded filtration materials Beven, John Lawson / Case, Paul David / Coleman, Martin / Greig, Colin Campbell / White, Peter Rex (British American Tobacco (Investments) Limited), EUROPEAN PATENT, Sep 1994 patno: EP614620 ...such heat and pressure conditions...elements of cellulose acetate and paper were...controlled elevated temperatures. The conditions...vaporisation to steam of at least...consisting of cellulose acetate, polypropylene...for example, cellulose acetate. The material...Chemical Company. **Rice** or tapioca... Full text available at patent office. For more in-depth searching go to **LexisNexis** view all 15 results from Patent Offices similar results ☐ 10. SELECTIVE FILTRATION DEVICE DOUGLAS, Annmarie, Veronica / GEER, Robert, Gillette / MORGAN, Benji, Dawn (KIMBERLY-CLARK CORPORATION), PATENT COOPERATION TREATY APPLICATION, Feb. 1996 patno: WO9605744 ...high-speed manufacturing processes...tobacco and bagasse. As used...conventional cellulose acetate filter" refers...filter made of cellulose acetate tow treated...conventional cellulose acetate filter for...process. Steam can or steam... Full text available at patent office. For more in-depth searching go to **LexisNexis** view all 15 results from Patent Offices similar results **11.** Selective filtration device Douglas, Annmarie Veronica / Geer, Robert Gillette / Morgan, Benji Dawn (Schweitzer-Mauduit International, Inc.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Mar 1998 patno: US5732718 ...web may be non-compressibly dried utilizing a conventional steam can or steam roll arrangement shown in FIG. 1 at 34. The wet-formed adsorbent...composite material 28 passes over drums 36-42 heated to a temperature ranging from about 150.degree.-175.degree. F. (65.degree... Full text available at patent office. For more in-depth searching go to LexisNexisview all 15 results from Patent Offices similar results **12.** SELECTIVE FILTRATION DEVICE DOUGLAS, Annmarie, Veronica / GEER, Robert, Gillette / MORGAN, Benji, Dawn (Schweitzer-Mauduit International, Inc.), EUROPEAN PATENT, Jul 1997 patno: EP782400 ...high-speed manufacturing processes...tobacco and bagasse. As used...conventional cellulose acetate filter" refers...filter made of cellulose acetate tow treated...conventional cellulose acetate filter for...process. Steam can or steam... Full text available at patent office. For more in-depth searching go to LexisNexisview all 15 results from Patent Offices similar results 13. FILTER PLUG OF STAPLE FIBER FILTER ELEMENTS AND THE LIKE SPROULL REAVIS C / BERGER RICHARD M (AMERICAN FILTRONA CORPORATION). UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jan 1971

patno: US3552400

...station. The bore of the **steam**-treating sta- **steam** serves to efficiently...moisture. In fact, the **steam**: 188 into the funnel...the terminology the **cellulose acetate** tow is generally sufficient...including shredded **bagasse** fibers, cotton linters...

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Fibrous web having improved strength and method of making the same Halabisky, Donald D. / West, Hugh / Hajnal, Andre S. / Grant, Terry M. (Weyerhaeuser Company), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Nov 1998 patno:US5837627

...Straw, flax, **kenaf** or similar...the fibers to **steam**, or chemical...Fiber Sheet **Manufacturing** With Reactivatable...has a vapor **pressure** of 29 kPa or...**cellulose acetate** triacetin propane...mediums listed, **cellulose acetate** is the most...manufacture of **cellulose acetate** fibers, a finish...

Full text available at patent office. For more in-depth searching go to view all 15 results from Patent Offices similar results

**I 15. FIBROUS WEB HAVING IMPROVED STRENGTH AND METHOD OF MAKING THE SAME HALABISKY, Donald D. / WEST, Hugh / HAJNAL, Andre S. / GRANT, Terry M. (WEYERHAEUSER COMPANY; HALABISKY, Donald, D.; WEST, Hugh; HAJNAL, Andre, S.; GRANT, Terry, M.), PATENT COOPERATION TREATY APPLICATION, Sep 1996 patno: WO9627703

...with accurate **temperature** control systems...as straw, **kenaf** or similar...photomicrograph of **cellulose acetate** fibers and...photomicrograph showing **cellulose acetate** fibers bonded...photomicrograph showing **cellulose acetate** fibers bonded...fibers to **steam**, or chemical...Fiber Sheet **Manufacturing** With Reactivatable...has a vapor **pressure** of 29 kPa...

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☐ 16. Improvements in or relating to the manufacture of laminated glass
(LOUIS BARTELSTONE), UNITED KINGDOM PATENT APPLICATION, Nov 1927
patno:GB0279671

...encountered in **manufacturing** such a product...all and IP **rice** 1 /-I in which...glass under a **pressure** exceeding...time and the **temperature** being in the...that of a **steam** table) and...sheets of **cellulose acetate** may be employed...inasmuch as **cellulose acetate** can be obtained...celluloid or **cellulose acetate** is 130 279...

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S4	5	((TAKATSUGU) near2 (TAKAMURA)).INV.	US-PGPUB; USPAT	NEAR	ON	2007/08/21 14:56
S5	4	((TAKATSUGU) near2 (TAKAMURA)).INV.	EPO; JPO; DERWENT	NEAR	ON	2007/08/21 14:43
S6	8	("1522618" "4306060" "4520105" "5371207" "5658765" "6228213" "6352644").PN. OR ("6984731").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/08/21 14:45
S7	94590	bagasse or kenaf or reeds	US-PGPUB; USPAT	NEAR	ON	2007/08/21 14:56
S8	66399	cellulose acetate	US-PGPUB; USPAT	NEAR	ON ⁻	2007/08/21 15:35
S9	1588	S7 and S8	US-PGPUB; USPAT	NEAR	ON	2007/08/21 14:56
S10	65606	cellulose adj acetate	US-PGPUB; USPAT	NEAR	ON	2007/08/21 14:59
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S18	7340	(cellulose adj acetate).clm.	US-PGPUB; USPAT	NEAR	ON	2007/08/21 15:00
S19	7340	(cellulose adj acetate).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/21 15:25
S20	184	S19 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/21 15:25

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S21	39	S20 and steam	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/21 15:25
S22	22	S21 and (filter or filtering)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/21 15:34
S23	21	S22 and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/21 15:30
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S27	39	S26 and S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON .	2007/08/21 15:34
S28	16	S27 and (filter or filtering)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/21 15:34

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S29	799	sugar cane bagasse	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/21 15:35
S30	21	S29 and S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/21 15:35
S31	27	S29 and (cellulose acetate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/21 15:40
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S41	17	bagasse NEAR10 cellulose NEAR10 crush\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/22 11:42
S42	1	bagasse NEAR10 cellulose NEAR10 extrud\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/22 11:55
S43	19	("1522618" "4306060" "4520105" " 5371207" "5658765" "6228213" "63 52844").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/22 11:45
S44	2	bagasse NEAR10 cellulose NEAR10 (knead\$ or steaming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/22 11:57
S45	13	(bagasse or kenaf or reeds or rice) NEAR10 cellulose NEAR10 (knead\$ or steaming)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/08/22 11:58